

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of providing information, comprising:
receiving an information signal representing information that is not associated with color;
monitoring the information signal to obtain signal parameter values;
providing an LED illumination device wherein the illumination device further comprises an input connection;
providing a processor for converting the signal parameter values into color parameters of an illumination control signal; and
communicating the illumination control signal to the input connection to control a light output of the illumination device to correspond to the color parameters of the illumination control signal so as to convey the information received in the information signal.
2. (Previously Presented) A method of claim 1 wherein the information signal is received from at least one of a world wide web and a network connection.
3. (Previously Presented) A method of claim 2 wherein the information signal comprises of at least one of financial information, environmental information, computer status information, notification information, email notification information, and status information.
4. (Original) A method of claim 1 wherein the processor is at least one of a controller, addressable controller, microprocessor, microcontroller, addressable microprocessor, computer, programmable processor, programmable controller, dedicated processor, dedicated controller, computer, and laptop computer.
5. (Previously Presented) A method of claim 1 wherein the LED illumination device comprises:
at least two LEDs wherein the at least two LEDs produce at least two different spectra;
a second processor;

at least two controllers wherein the controllers independently control power delivered to the at least two LEDs;

the at least two controllers further comprising a signal input wherein the signal input is associated with the illumination processor;

the at least two controllers are responsive to signals communicated to the signal input; and
a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material.

6. (Currently Amended) A method of providing information comprising:

providing an LED illumination device wherein the illumination device comprises at least two LEDs wherein the at least two LEDs produce at least two different spectra;

providing a processor;

providing at least two controllers wherein the controllers independently control power delivered to the at least two LEDs, the at least two controllers further comprising a signal input connection wherein the signal input connection is associated with the processor; the at least two controllers being responsive to signals communicated to the signal input connection; and

providing a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material;

providing an information signal to the signal input connection, wherein the information signal represents scalar information;

wherein the processor converts the information signal into an illumination control signal; and the illumination device changes color corresponding to the information signal.

7. (Original) A method of claim 6 wherein the processor is at least one of a controller, addressable controller, microprocessor, microcontroller, addressable microprocessor, computer, programmable processor, programmable controller, dedicated processor, dedicated controller, computer, and laptop computer.

8. (Currently Amended) An information system comprising:

at least two LEDs wherein the at least two LEDs produce at least two different spectra;
a processor;
at least two controllers wherein the controllers independently control power delivered to the
at least two LEDs;
the at least two controllers further comprising a signal input wherein the signal input is
associated with the processor;
the at least two controllers are responsive to signals communicated to the signal input; ~~and~~
a light transmissive material wherein the LEDs are arranged to illuminate the light
transmissive material;
an information signal input wherein the information signal input is associated with the
processor; and
a second processor, wherein the second processor is associated with the processor, and
wherein the second processor converts an information signal representing scalar information to
lighting control signals representing color and communicates the lighting control signals to the
processor.

9. (Cancelled).

10. (Currently Amended) An information system of claim [[9]] 8, further comprising a user interface wherein the user interface is associated with the second processor.

11. (Original) An information system of claim 10 wherein the user interface is at least one of a computer, web browser, web site, touch screen, LCD screen, plasma screen, and laptop computer.

12. (Currently Amended) An information system of claim [[9]] 8, wherein the second processor is at least one of a computer, microcomputer, microprocessor, and laptop computer.

13. (Canceled)

14. (Currently Amended) A method of providing information comprising:
- receiving an information signal ~~formatted~~ representing numeric information not associated with color;
 - formatting the information signal as a lighting control signal having hue, saturation and intensity parameters; and
 - varying at least a color of light generated by an LED illumination device in response to the information signal, wherein at least one of a hue, a saturation and an intensity of the generated light represent the numeric information encoded in the received information signal, wherein the LED illumination device comprises:
 - at least two LEDs wherein the at least two LEDs produce at least two different spectra;
 - a processor;
 - at least two controllers wherein the controllers independently control power delivered to the at least two LEDs;
 - the at least two controllers further comprising a signal input wherein the signal input is associated with the processor;
 - the at least two controllers are responsive to signals communicated to the signal input; and
 - a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material.

15. – 17. (Cancelled).

18. (Currently Amended) A computer peripheral comprising:
- at least two LEDs wherein the at least two LEDs produce at least two different spectra;
 - a processor;
 - at least two controllers wherein the controllers independently control power delivered to the at least two LEDs;
 - the at least two controllers further comprising a signal input wherein the signal input is associated with the processor;
 - the at least two controllers are responsive to signals communicated to the signal input;

a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material; and

an information signal input wherein the information signal input is associated with the processor,

wherein the processor converts scalar information received on the information signal input to color information provided to the signal input of the at least two controllers.

19. (Original) A computer peripheral of claim 18 wherein the processor is at least one of a controller, addressable controller, microprocessor, microcontroller, addressable microprocessor, computer, programmable processor, programmable controller, dedicated processor, dedicated controller, computer, and laptop computer.

20. (Original) A computer peripheral of claim 18 wherein the at least two controllers are at least one of a pulse width modulator, pulse amplitude modulator, pulse displacement modulator, resistor ladder, current source, voltage source, voltage ladder, and voltage controller.

21. – 33. (Cancelled).

34. (Currently Amended) An information system, comprising:

a receiver for receiving an information signal representing information that is not associated with color;

an LED illumination device wherein the illumination device further comprises an input connection;

a processor for monitoring the information signal to obtain signal parameter values and for converting the signal parameter values into color parameters of an illumination control signal; and

a controller for communicating the illumination control signal to the input connection to control a light output of the illumination device to correspond to the color parameters of the illumination control signal so as to convey the information received in the information signal.

35. (Previously Presented) A system of claim 34 wherein the information signal is received from at least one of a world wide web and a network connection.

36. (Original) A system of claim 35 wherein the information signal comprises of at least one of financial information, environmental information, computer status information, notification information, email notification information, and status information.

37. (Original) A system of claim 34 wherein the processor is at least one of a controller, addressable controller, microprocessor, microcontroller, addressable microprocessor, computer, programmable processor, programmable controller, dedicated processor, dedicated controller, computer, and laptop computer.

38. (Original) A system of claim 34 wherein the LED illumination device comprises:
at least two LEDs wherein the at least two LEDs produce at least two different spectra;
a second processor;
at least two controllers wherein the controllers independently control power delivered to the at least two LEDs;
the at least two controllers further comprising a signal input wherein the signal input is associated with the illumination processor;
the at least two controllers are responsive to signals communicated to the signal input; and
a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material.

39. (Currently Amended) An information system, comprising:
an LED illumination device wherein the illumination device comprises at least two LEDs wherein the at least two LEDs produce at least two different spectra;
a processor;
at least two controllers wherein the controllers independently control power delivered to the at least two LEDs[[:]], the at least two controllers further comprising a signal input wherein the

signal input is associated with the processor[[;]], the at least two controllers being responsive to signals communicated to the signal input; and

a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material; ~~a signal input connection wherein the signal input connection is associated with the processor,~~

wherein the signal input receives an illumination control signal representing scalar information, and wherein the processor converts the information signal into an illumination control signal and the illumination device changes color corresponding to the information signal.

40. (Original) A system of claim 39, wherein the processor is at least one of a controller, addressable controller, microprocessor, microcontroller, addressable microprocessor, computer, programmable processor, programmable controller, dedicated processor, dedicated controller, computer, and laptop computer.

41. (Currently Amended) A method of providing an information system comprising:

providing at least two LEDs wherein the at least two LEDs produce at least two different spectra;

providing a processor;

providing at least two controllers wherein the at least two controllers independently control power delivered to the at least two LEDs;

the at least two controllers further comprising a signal input wherein the signal input is associated with the processor;

the at least two controllers being responsive to signals communicated to the signal input;

providing a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material; and

providing an information signal input wherein the information signal input is associated with the processor

providing a second processor, wherein the second processor is associated with the processor, and wherein the second processor converts an information signal representing scalar information to

lighting control signals representing color and communicates the lighting control signals to the processor.

42. (Cancelled).

43. (Currently Amended) A method of claim [[42]] 41, further comprising providing a user interface wherein the user interface is associated with the second processor.

44. (Original) A method of claim 43 wherein the user interface is at least one of a computer, web browser, web site, touch screen, LCD screen, plasma screen, and laptop computer.

45. (Previously Presented) A method of claim 44 wherein the second processor is at least one of a computer, microcomputer, microprocessor, and laptop computer.

46. (Canceled)

47. (Currently Amended) An information system, comprising:
an LED illumination device configured to generate light having a variable color; and
a controller, coupled to the LED illumination device, to receive an information signal
formatted representing numeric information not associated with color, the controller configured to
format the information signal as a lighting control signal having hue, saturation and intensity
parameters and to control the illumination device so as to vary at least the color of the generated
light in response to the information signal, wherein at least one of a hue, a saturation and an
intensity of the generated light represent the numeric information encoded in the received
information signal, wherein the LED illumination device comprises:
at least two LEDs wherein the at least two LEDs produce at least two different spectra;
a processor;
at least two controllers wherein the controllers independently control power delivered to the
at least two LEDs;

the at least two controllers further comprising a signal input wherein the signal input is associated with the processor;

the at least two controllers being responsive to signals communicated to the signal input; and
a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material.

48. - 50. (Cancelled).

51. (Currently Amended) A method of providing a computer peripheral comprising:
providing at least two LEDs wherein the at least two LEDs produce at least two different spectra;

providing a processor;

providing at least two controllers wherein the controllers independently control power delivered to the at least two LEDs, the at least two controllers further comprising a signal input wherein the signal input is associated with the processor, the at least two controllers being responsive to signals communicated to the signal input;

providing a light transmissive material wherein the LEDs are arranged to illuminate the light transmissive material; and

providing an information signal input wherein the information signal input is associated with the processor; and

converting scalar information received on the information signal input to color information provided to the signal input of the at least two controllers.

52. (Original) A method of claim 51 wherein the processor is at least one of a controller, addressable controller, microprocessor, microcontroller, addressable microprocessor, computer, programmable processor, programmable controller, dedicated processor, dedicated controller, computer, and laptop computer.

53. (Original) A method of claim 51 wherein the at least two controllers are at least one of a pulse width modulator, pulse amplitude modulator, pulse displacement modulator, resistor ladder, current source, voltage source, voltage ladder, and voltage controller.

54. – 75. (Cancelled).